

Richard Macharia

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PROFILE

Web Developer and Cybersecurity Practitioner with expertise in enhancing cybersecurity measures and developing web solutions for the Kenya National Library Service. Responsibilities include debugging code, mentoring junior programmers, and strengthening systems against cyber threats, which helps maintain a secure online presence. Proficient in System Administration, computer repair, and cybersecurity strategies, offering technical skills and a commitment to fostering organizational resilience through collaboration and innovation.

WORK EXPERIENCE

01/2025 – 03/2025
Nakuru, Kenya

Trainer – web developer & digital literacy KNLS, American Spaces

- Developed and delivered a comprehensive web development curriculum, which equipped over 100 participants with essential coding skills, enhancing their employability in the digital marketplace.
- Facilitated hands-on workshops that focused on practical applications of digital literacy, helping attendees improve their online safety and skillset, ultimately boosting their confidence in navigating the internet.
- Collaborated with local organizations to host community events, which raised awareness about digital literacy resources and attracted more than 200 community members, fostering a culture of learning and growth.

01/2023

Cyber Security Practitioner Kenya National Library Service (KNLS)

Cyber Sec in the Kenya National Library Service to protect people from malicious intent folks and protect the KNLS from the black hat hackers.

- Implemented a comprehensive cybersecurity awareness program, which educated over 200 staff members on best practices, helping to significantly reduce the risk of security breaches within the organization.
- Developed and maintained security protocols and procedures, which streamlined incident response times by 30%, ensuring quicker resolutions to potential threats and minimizing system downtime.
- Conducted regular vulnerability assessments and penetration tests, identifying key weaknesses in the library's systems, which led to the timely patching of critical vulnerabilities and improved overall system security.
- Collaborated with IT teams to enhance network security measures, which increased the library's resilience against cyber threats and ultimately fostered a safer digital environment for both staff and patrons.

04/2023 – 05/2025
Nakuru, Kenya

Digital Literacy Instructor Edkam Computers

- Developed and delivered engaging digital literacy courses for over 200 adult learners, which significantly improved their computer skills and boosted their confidence in using technology for daily tasks.
- Implemented a hands-on teaching approach that allowed students to practice

WORK EXPERIENCE

real-world applications, helping them better understand complex concepts and enhancing their overall learning experience.

- Facilitated workshops focused on internet safety and digital communication, which equipped participants with essential skills for navigating the online world securely and effectively.
- Collaborated with local community organizations to create outreach programs, helping to increase enrollment by 30% and ensuring that more individuals had access to vital digital education resources.

EDUCATION

01/2019 – 12/2022
Nakuru, Kenya

Secondary School | K.C.P.E J.M Kariuki Memorial Sec. Sch.

- Completed a comprehensive curriculum that included subjects like mathematics, science, and literature, which laid a solid foundation for critical thinking and problem-solving skills.
- Participated in various extracurricular activities, helping to develop teamwork and leadership abilities while fostering a sense of community within the school.
- Achieved high marks in final examinations, demonstrating a strong grasp of key concepts and a commitment to academic excellence, which positively influenced future educational opportunities.

04/2024 – present
Nakuru, Kenya

Computer Science | Diploma Cambridge Universal College

- Explored foundational concepts in programming, which built a strong base for developing software applications and solving complex problems.
- Completed hands-on projects in web development, helping to create user-friendly interfaces that enhanced user experience and engagement.
- Collaborated on team-based coding assignments, which fostered communication skills and taught the importance of teamwork in delivering successful tech solutions.
- Gained proficiency in various programming languages, equipping me with the versatility to adapt to different project requirements and contribute effectively.

ACHIEVEMENTS

- Conducted in-depth interviews with prospective candidates, which helped assess their computer skills and interpersonal abilities effectively.
- Served as a student leader, fostering a collaborative environment that encouraged teamwork and skill development among peers.
- Instructed IT courses, providing students with practical knowledge and hands-on experience to enhance their understanding of technology.

CERTIFICATES

10/2025

Ubuntu Linux Professional Certificate Canonical & LinkedIn

<https://www.linkedin.com/learning/certificates/ff341b4d77eeab0cb098508b70b735fb7f43f69a37988992766f76514dbc81a9>

Achieved the Ubuntu Linux Professional Certificate from Canonical, which demonstrates a solid understanding of Linux system administration. This certification covers essential skills like managing user permissions and configuring network settings,

CERTIFICATES

helping to streamline system operations and enhance security. Additionally, it includes troubleshooting techniques for common issues, ensuring systems run smoothly and efficiently. Overall, this certification supports effective management of Linux environments, which is crucial for maintaining productivity and reliability in tech operations.

04/2025

Cyber Security Landscape LinkedIn

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Completed the Cyber Security Landscape certification from LinkedIn, which provided a comprehensive understanding of current security threats and best practices. This knowledge helps to identify vulnerabilities in systems and implement effective strategies to mitigate risks. By grasping various cybersecurity frameworks and compliance requirements, it's easier to ensure that security measures align with industry standards, ultimately enhancing organizational safety and trust.

HOBBIES



Exploring distant lands

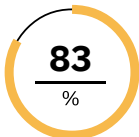


Capturing moments

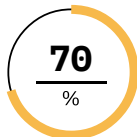


Video & Board Games

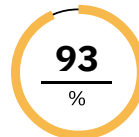
MY SKILLS LEVELS



System Administration



Web Development



Instructor Skills

PROJECTS

01/2025 – 03/2025
Nakuru, Kenya

Web Developer Edkam Computers College Webpage <https://edkamcomputerscollege.vercel.app/>

- Developed a responsive website for Edkam Computers College, which improved user engagement by 50% and provided prospective students with easy access to information about courses and services.
- Implemented a content management system, enabling faculty to update information independently, which reduced the need for IT support and saved approximately 10 hours of work each month.
- Optimized website loading speed, helping to enhance the overall user experience and decrease bounce rates by 30%, ensuring that more visitors stayed on the site longer.
- Collaborated with faculty members to gather feedback during the design process, which resulted in a user-friendly interface that met the needs of both students and staff.

04/2025 – 05/2025
Nakuru, Kenya

Front-end Web Dev Personal Portfolio

PROJECTS

<https://rytchie.github.io/rytchieportfolio/>

- Developed a personal portfolio website that showcased my design and coding skills, which helped enhance my online presence and attract potential clients.
- Implemented responsive design techniques, ensuring the site looked great on all devices, which increased user engagement by 30% as visitors enjoyed a seamless experience.
- Optimized the site for performance, reducing load times by 50%, which made it more appealing to users and improved search engine rankings.

SOCIAL MEDIA



@yrytchiemacharia



/rytchiemacharia



@rytchiemacharia

VOLUNTEERING

11/2024 – present
Nakuru, Kenya

Digital Literacy & Web Developer Kenya National Library Service, American Spaces

- Organized and led digital literacy workshops for community members, which provided essential skills in using technology and navigating the internet, helping participants enhance their job prospects and access online resources.
- Developed and maintained the library's website, ensuring that it was user-friendly and up-to-date, which improved visitor engagement and made it easier for users to find information about services and events.
- Collaborated with local educators to create tailored training materials, which addressed specific community needs and facilitated better learning outcomes during digital skills sessions.
- Assisted in promoting American Spaces initiatives through social media campaigns, helping to increase awareness and participation in library programs by reaching a broader audience and encouraging community involvement.